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TITLE Remote Sensing Geophysics from Skylab

INVESTIGATION NO.: 487

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P. I. MANAGEMENT OFFICE: NASA Johnson Space Center
Houston, Texas 77058

TECHNICAL MONITOR: Timothy White

PRINCIPAL INVESTIGATOR: Kenneth Watson
U.S. Geological Survey
Denver, Colorado 80225

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Status during May

1. The field trip which was postponed from April was carried out at the end of May. Measurements were made at three anomalous locations in the Marine Corps Gunnery range at Twentynine Palms, California. Although the measurements at the first site appeared to be reliable, the measurements at the next two sites were hampered by high cirrus clouds. The second day was even cloudier than the first. Samples were collected at all three sites and will be analyzed at JPL for spectral reflectivity and at Denver for hematite distribution.

It is planned to return to the field area in late July.

2. We received authorization by NASA for publication of the paper on "Near infrared reflectance anomalies of andesites and basalts in Southern California and Nevada.

3. We discussed with a group from Martin Marietta the possibility of processing S-192 data, most particularly the problem of reduction of noise in the thermal channel and the problem of barely usable data in the nighttime thermal infrared.